EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L2	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L3	0	("l7andl17").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L4	0	heptatrieno$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L5	0	heptatrien$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L6	0	(dodecen$ and insecticid$) and "2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L7	300	(514/559).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L8	953	(514/562).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L9	444	(514/564).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L10	750	(514/570).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L11	196	(514/571).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L12	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L13	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L14	0	("l7andl17").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L15	0	heptatrieno$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L16	0	heptatrien$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L17	0	(dodecen$ and insecticid$) and "2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L18	300	(514/559).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L19	953	(514/562).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L20	444	(514/564).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L21	750	(514/570).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L22	196	(514/571).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L23	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L24	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L25	0	("l7andl17").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L26	0	heptatrieno$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L27	0	heptatrien$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L28	0	(dodecen$ and insecticid$) and "2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L29	300	(514/559).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L30	953	(514/562).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L31	444	(514/564).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L32	750	(514/570).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L33	196	(514/571).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L34	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L35	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L36	0	("l7andl17").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L37	0	heptatrieno$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L38	0	heptatrien$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L39	0	(dodecen$ and insecticid$) and "2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40

EAST Search History

L40	300	(514/559).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L41	953	(514/562).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L42	444	(514/564).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L43	750	(514/570).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L44	196	(514/571).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L45	3	heptatrienoic and histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L46	3	7-phenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L47	3	histone and heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L48	1	"4621099".URPN.	USPAT	OR	ON	2007/05/23 05:40
L49	3	heptatrienoic and histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L50	3	7-phenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L51	3	histone and heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L52	1	"4621099".URPN.	USPAT	OR	ON	2007/05/23 05:40
L53	3	heptatrienoic and histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L54	3	7-phenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L55	3	histone and heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L56	1	"4621099".URPN.	USPAT	OR	ON	2007/05/23 05:40
L57	3	heptatrienoic and histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L58	3	7-phenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L59	3	histone and heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L60	1	"4621099".URPN.	USPAT	OR	ON	2007/05/23 05:40
L61	2	("4663336").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L62	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L63	82	heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L64	107	(Histone adj deacetylase) and hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L65	3	"2001038322".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L66	3	"9814424".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L67	56	heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L68	5	7-phenyl-2,4,6-heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L69	2	"5037813".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L70	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40

EAST Search History

L71	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L72	16	"2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L73	2	"5747537".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L74	3	"9929640".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L75	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L76	2	"9827162".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L77	2	"4810299".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L78	2	"4621099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L79	2	"5459149".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L80	5	"2849466" .pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L81	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L82	82	heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L84	3	"2001038322".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L85	3	"9814424".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L86	56	heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L87	5	7-phenyl-2,4,6-heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L88	2	"5037813".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L89	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L90	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L91	16	"2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L92	2	"5747537".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L93	3	"9929640".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L94	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L95	2	"9827162".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L96	2	"4810299".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40

EAST Search History

L97	2	"4621099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L98	2	"5459149".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L99	5	"2849466" .pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L100	2	("6720445").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L101	2	("4663336").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L102	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L103	82	heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L104	107	(Histone adj deacetylase) and hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L105	3	"2001038322".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L106	3	"9814424".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L107	56	heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L108	5	7-phenyl-2,4,6-heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L109	2	"5037813".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L110	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L111	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L112	16	"2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L113	2	"5747537".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L114	3	"9929640".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L115	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L116	2	"9827162".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L117	2	"4810299".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L118	2	"4621099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L119	2	"5459149".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L120	5	"2849466" .pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L121	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40

EAST Search History

L122	82	heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L123	107	(Histone adj deacetylase) and hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L124	3	"2001038322".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L125	3	"9814424".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L126	56	heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L127	5	7-phenyl-2,4,6-heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L128	2	"5037813".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L129	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L130	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L131	16	"2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L132	2	"5747537".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L133	3	"9929640".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L134	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40

EAST Search History

L135	2	"9827162".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L136	2	"4810299".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L137	2	"4621099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L138	2	"5459149".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L139	5	"2849466" .pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L140	162	oxamflatin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L141	162	oxamflatin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L142	242	(562/491).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L143	242	(562/491).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L144	242	(562/491).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L145	242	(562/491).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L146	325	(562/495).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L147	325	(562/495).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L148	381	$pentynoic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L149	325	(562/495).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L150	325	(562/495).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L151	381	$pentynoic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L152	515	dodecen$ and insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L153	515	dodecen$ and insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L154	515	dodecen$ and insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L155	515	dodecen$ and insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L156	607	heptatrien$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L157	607	heptatrien$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L158	607	heptatrien$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L159	607	heptatrien$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L160	972	Histone adj deacetylase	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L164	7470	hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L165	5542	histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L166	18787	dodecen$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L167	80384	insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L168	7470	hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L169	5542	histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L170	18787	dodecen$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L171	80384	insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L172	7470	hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L173	5542	histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L174	18787	dodecen$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L175	80384	insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L176	7470	hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L177	5542	histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L178	18787	dodecen$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L180	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L181	3	heptatrienoic and histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L182	3	7-phenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L183	196	(514/571).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L184	750	(514/570).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L185	196	(514/571).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L186	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L187	2	("4663336").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L188	1	"4621099".URPN.	USPAT	OR	ON	2007/05/23 05:40
L189	515	dodecen$ and insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L190	515	dodecen$ and insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L191	3	heptatrienoic and histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L192	3	7-phenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L193	3	histone and heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L194	0	("l7andl17").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L195	0	heptatrieno$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L196	0	heptatrien$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L197	3	heptatrienoic and histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L198	3	7-phenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L199	3	histone and heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L200	3	heptatrienoic and histone	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L201	300	(514/559).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L202	196	(514/571).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L203	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L204	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L205	444	(514/564).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L206	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L207	0	("l7andl17").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L208	0	heptatrieno$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L209	300	(514/559).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L210	0	("l7andl17").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L211	0	heptatrieno$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L212	0	(dodecen$ and insecticid$) and "2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L213	0	heptatrieno$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L214	0	heptatrien$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L215	1	"4621099".URPN.	USPAT	OR	ON	2007/05/23 05:40
L216	1	"4621099".URPN.	USPAT	OR	ON	2007/05/23 05:40
L217	0	heptatrien$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L218	300	(514/559).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L219	82	heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L220	0	(dodecen$ and insecticid$) and "2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40

EAST Search History

L221	0	("l7andl17").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L222	3	histone and heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L223	953	(514/562).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L224	444	(514/564).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L225	3	histone and heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L226	0	(dodecen$ and insecticid$) and "2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L227	953	(514/562).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L228	0	(dodecen$ and insecticid$) and "2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L229	750	(514/570).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L230	0	7,7-diphenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L231	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L232	953	(514/562).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L233	444	(514/564).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L234	1	"4621099".URPN.	USPAT	OR	ON	2007/05/23 05:40
L235	750	(514/570).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L236	196	(514/571).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L237	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L238	0	heptatrien$ and (("562/491").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L239	300	(514/559).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L240	0	(Histone adj deacetylase) and (("562/495").CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L241	953	(514/562).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L242	444	(514/564).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L243	750	(514/570).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L244	3	7-phenyl-2,4,6-heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L245	107	(Histone adj deacetylase) and hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L246	3	"2001038322".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L247	3	"9814424".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L248	56	heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L249	5	7-phenyl-2,4,6-heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L250	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L251	2	"5747537".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L252	2	"5459149".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L253	5	"2849466" .pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L254	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L255	2	"4810299".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L256	3	"9929640".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L257	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L258	2	"9827162".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L259	162	oxamflatin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L260	2	"5037813".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L261	82	heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L262	3	"2001038322".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L263	3	"9814424".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L264	56	heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L265	5	7-phenyl-2,4,6-heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L266	2	"5037813".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L267	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L268	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L269	16	"2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L270	2	"5747537".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L271	3	"9929640".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L272	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L273	2	"9827162".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40

EAST Search History

L274	5	"2849466" .pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L275	2	("6720445").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L276	82	heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L277	107	(Histone adj deacetylase) and hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L278	3	"2001038322".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L279	3	"9814424".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L280	56	heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L281	5	7-phenyl-2,4,6-heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L282	2	"5037813".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L283	2	"4621099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L284	2	"5459149".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L285	5	"2849466" .pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L286	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L287	82	heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L288	107	(Histone adj deacetylase) and hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L289	3	"2001038322".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L290	3	"9814424".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L291	56	heptatrienoic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L292	5	7-phenyl-2,4,6-heptatrieno$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L293	2	"5037813".pn.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L294	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L295	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L296	16	"2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L297	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L298	16	"2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L299	16	"2005271"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L300	2	"5747537".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40

EAST Search History

L301	3	"9929640".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L302	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L303	2	"9827162".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L304	2	"4810299".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L305	2	"5747537".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L306	3	"9929640".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L307	2	"9827162".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L308	2	"4810299".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L309	2	"4621099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L310	2	"5459149".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L311	5	"2849466" .pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L312	162	oxamflatin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40

EAST Search History

L313	2	"4621099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L314	107	(Histone adj deacetylase) and hydroxamic	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L315	2	"4810299".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L316	2	"4621099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L317	2	"5459149".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L318	2	("4663336").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L319	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L320	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L321	2	"4371516".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L322	2	"53101527".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L323	242	(562/491).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L324	242	(562/491).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L325	242	(562/491).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L326	242	(562/491).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L327	325	(562/495).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L328	381	$pentynoic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L329	325	(562/495).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L330	325	(562/495).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L331	325	(562/495).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L332	381	$pentynoic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L333	515	dodecen$ and insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L334	515	dodecen$ and insecticid$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 05:40
L335	607	heptatrien$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L336	607	heptatrien$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L337	607	heptatrien$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40

EAST Search History

L338	607	heptatrien$	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 05:40
L339	2	("5010189").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 07:41
L340	2	("4513005").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 07:53
L341	3	("4405810").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 10:14
L342	11	("5196147").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/05/23 10:14

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NEWS	27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS	28	MAY 01	New CAS web site launched
NEWS	29	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS	30	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	31	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	32	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	33	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS	34	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 05:48:30 ON 23 MAY 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 05:49:15 ON 23 MAY 2007
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STRUCTURE FILE UPDATES: 22 MAY 2007 HIGHEST RN 935655-41-7
DICTIONARY FILE UPDATES: 22 MAY 2007 HIGHEST RN 935655-41-7

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> e HEXANOIC ACID, 6-((1-METHYL-5-NITRO-1H-IMIDAZOL-2-YL)THIO)-/cn

E1	1	HEXANOIC ACID, 6-((1-METHYL-3-(2-((2-METHYL-1-OXO-2-PROPENYL)OXY)ETHOXY)-3-OXO-1-PROPENYL)AMINO)-/CN
E2	1	HEXANOIC ACID, 6-((1-METHYL-3-OXO-1-BUTENYL)OXY)-, ETHYL ESTER/CN
E3	1 -->	HEXANOIC ACID, 6-((1-METHYL-5-NITRO-1H-IMIDAZOL-2-YL)THIO)-/CN
E4	1	HEXANOIC ACID, 6-((1-METHYLCYCLOHEXADECYL)OXY)-/CN
E5	1	HEXANOIC ACID, 6-((1-METHYLCYCLOHEXADECYL)OXY)-, METHYL ESTER/CN
E6	1	HEXANOIC ACID, 6-((1-METHYLETHOXY)AMINO)-4,6-DIOXO-/CN
E7	1	HEXANOIC ACID, 6-((1-METHYLETHYL)(3-METHYL-5-(2-(4-PYRIDINYLAMINO)ETHOXY)BENZOYL)AMINO)-/CN
E8	1	HEXANOIC ACID, 6-((1-METHYLETHYL)(3-METHYL-5-(2-(4-PYRIDINYLAMINO)ETHOXY)BENZOYL)AMINO)-, MONO(TRIFLUOROACETATE)/CN
E9	1	HEXANOIC ACID, 6-((1-METHYLETHYL)AMINO)-/CN
E10	1	HEXANOIC ACID, 6-((1-METHYLETHYL)PHENYLAMINO)-6-OXO-/CN
E11	1	HEXANOIC ACID, 6-((1-METHYLETHYL)THIO)-6-OXO-/CN
E12	1	HEXANOIC ACID, 6-((1-METHYLPROPYL)AMINO)-/CN

```
=> \e3
L1         3914 \E3
                (E3)

=> e3
L2             1 "HEXANOIC ACID, 6-((1-METHYL-5-NITRO-1H-IMIDAZOL-2-YL)THIO)-"/CN

=> d l2

L2   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   64444-77-5  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Hexanoic acid, 6-[(1-methyl-5-nitro-1H-imidazol-2-yl)thio]- (9CI)
     (CA INDEX NAME)
MF   C10 H15 N3 O4 S
LC   STN Files:   BEILSTEIN*, CA, CAPLUS
         (*File contains numerically searchable property data)
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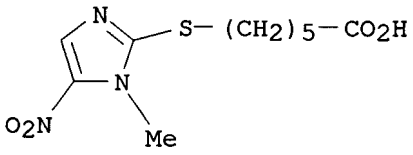


```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> logoff hold
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      14.10      14.31

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 05:52:24 ON 23 MAY 2007

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
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SESSION RESUMED IN FILE 'REGISTRY' AT 07:40:43 ON 23 MAY 2007
FILE 'REGISTRY' ENTERED AT 07:40:43 ON 23 MAY 2007
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COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      14.10      14.31

=> logoff hold
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
```

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                                                          ENTRY     SESSION
FULL ESTIMATED COST                                       14.10       14.31

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:40:51 ON 23 MAY 2007

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 07:47:05 ON 23 MAY 2007
FILE 'REGISTRY' ENTERED AT 07:47:05 ON 23 MAY 2007
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COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                       14.10       14.31

=> e 7-phenyl-5-hexenoic acid/cn
E1            1     7-PHENYL-5-AZULENECARBONITRILE/CN
E2            1     7-PHENYL-5-HEPTYNOIC ACID/CN
E3            0 --> 7-PHENYL-5-HEXENOIC ACID/CN
E4            1     7-PHENYL-5-METHOXY-2,6-HEPTADIENAL/CN
E5            1     7-PHENYL-5-OXOHEPTANOIC ACID/CN
E6            1     7-PHENYL-5-THIOXYL-5H-THIAZOLO(3,2-A)-1,3,5-TRIAZINE/CN
E7            1     7-PHENYL-5-TRIFLUOROMETHYLPYRAZOLO(1,5-A)PYRIMIDINE-2-CARBOX
                    YLIC ACID N-(CYCLOHEXYL)-N-METHYLAMIDE/CN
E8            1     7-PHENYL-5-UNDECANONE/CN
E9            1     7-PHENYL-5:6-BENZO-3-(P-NITROBENZAL)PHTHALIDE/CN
E10           1     7-PHENYL-5:6-BENZO-3-BENZALPHTHALIDE/CN
E11           1     7-PHENYL-6-HEPTENE-2,5-DIONE/CN
E12           1     7-PHENYL-6-HEPTENOIC ACID/CN

=> e2
L3            1 "7-PHENYL-5-HEPTYNOIC ACID"/CN

=> d l3

L3   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   88255-07-6  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   5-Heptynoic acid, 7-phenyl- (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   7-Phenyl-5-heptynoic acid
MF   C13 H14 O2
LC   STN Files:   BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
        (*File contains numerically searchable property data)
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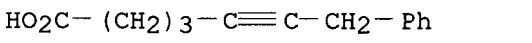

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              2 REFERENCES IN FILE CA (1907 TO DATE)
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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    25.50      25.71

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FILE COVERS 1907 - 23 May 2007  VOL 146 ISS 22
FILE LAST UPDATED: 22 May 2007  (20070522/ED)

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=> l3
L4            2 L3

=> d l4 1-2 ti fbib abs

L4   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Fragmentation of 2-benzyl-3-(tosylazo)cyclohex-2-en-1-one to methyl
     7-phenyl-5-heptynoate
AN   1986:478607  CAPLUS
DN   105:78607
TI   Fragmentation of 2-benzyl-3-(tosylazo)cyclohex-2-en-1-one to methyl
     7-phenyl-5-heptynoate
AU   Friary, R.; Seidl, V.
CS   Schering Res., Schering-Plough Corp., Bloomfield, NJ, 07003, USA
SO   Journal of Organic Chemistry (1986), 51(16), 3214-15
     CODEN: JOCEAH; ISSN: 0022-3263
DT   Journal
LA   English
OS   CASREACT 105:78607
GI
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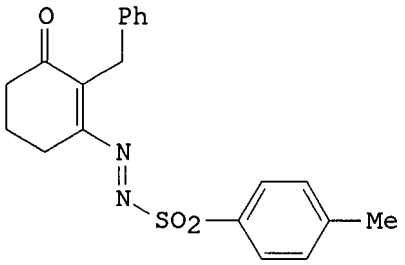

I

AB Treatment of title cyclohexenone (I) with NaOMe in MeOH gave PhCH2C.tplbond.C(CH2)3CO2Me.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
TI 7-Aryl-5-heptynoic acids
AN 1984:22419 CAPLUS
DN 100:22419
TI 7-Aryl-5-heptynoic acids
IN Blythin, David; Green, Michael J.
PA Schering Corp., USA
SO U.S., 7 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4405810	A	19830920	US 1982-388060	19820614
				US 1982-388060	19820614

OS CASREACT 100:22419; MARPAT 100:22419
AB RCH2C.tplbond.C(CH2)3CO2R1 [I; R = (un)substituted Ph, naphthyl; R1 = H, alkyl, Ph], useful as antiallergy and antiinflammatory agents (no data), were prepared Thus, a solution of HC.tplbond.C(CH2)3CO2H in DMF was treated with NaH and then with PhCH2Br to give I (R = Ph, R1 = H).

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.07	32.78

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:54:46 ON 23 MAY 2007

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LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 08:16:21 ON 23 MAY 2007

```
FILE 'CAPLUS' ENTERED AT 08:16:21 ON 23 MAY 2007
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COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                        7.07      32.78

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                          ENTRY    SESSION
CA SUBSCRIBER PRICE                                       -1.56      -1.56

=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                        7.54      33.25

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                          ENTRY    SESSION
CA SUBSCRIBER PRICE                                       -1.56      -1.56

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STRUCTURE FILE UPDATES:   22 MAY 2007  HIGHEST RN 935655-41-7
DICTIONARY FILE UPDATES:  22 MAY 2007  HIGHEST RN 935655-41-7

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> e 7-phenylheptenoic acid
E1            1     7-ALANINE/BI
E2            1     7-METHOXY-3-INDOLYLMETHYL/BI
E3            0 --> 7-PHENYLHEPTENOIC ACID/BI
E4          107     7.0/BI
E5            2     7.0,AL/BI
E6            1     7.0,BI/BI
E7            2     7.0,C/BI
E8            1     7.0,CO/BI
E9            8     7.0,CU/BI
E10           5     7.0,FE/BI
E11           4     7.0,MG/BI
E12          10     7.0,MN/BI

=> e 7-phenyl heptenoic acid/cn
E1            1     7-PHENOXYSULFONYL-3-INDENECARBOXYLIC ACID/CN
E2            1     7-PHENOXYTRICYCLO(4.2.2.02,5)DEC-7-ENE-3,4,9,10-TETRACARBOXY
                    LIC DIANHYDRIDE/CN
```

```
E3            0 --> 7-PHENYL HEPTENOIC ACID/CN
E4            1     7-PHENYL-1,2,3,4-TETRAHYDROISOQUINOLINE/CN
E5            1     7-PHENYL-1,2,3,4-TETRAHYDROQUINOLINE/CN
E6            1     7-PHENYL-1,2,4-TRIAZOLO(4,3-B)PYRIDAZINE/CN
E7            1     7-PHENYL-1,2-NAPHTHALENEDICARBOXYLIC ANHYDRIDE/CN
E8            1     7-PHENYL-1,3,3-TRIMETHYLSPIRO(INDOLINE-2,3'-(3H)-NAPHTHO(2,1
                    -B)PYRAN)/CN
E9            1     7-PHENYL-1,3,5-CYCLOHEPTATRIENE/CN
E10           1     7-PHENYL-1,3-DIAZASPIRO(4.4)NONANE-2,4-DIONE/CN
E11           1     7-PHENYL-1,4,6-ANDROSTATRIENE-3,17-DIONE/CN
E12           1     7-PHENYL-1,6-DIAZABICYCLO(4.1.0)HEPTANE/CN

=> e 7-phenylheptenoic acid/cn
E1            1     7-PHENYLHEPTANOYLHYDROXAMIC ACID/CN
E2            1     7-PHENYLHEPTATRIEN-2,4,6-AL-1/CN
E3            0 --> 7-PHENYLHEPTENOIC ACID/CN
E4            1     7-PHENYLHEPTYL 4-HYDROXYBENZOATE/CN
E5            1     7-PHENYLHEPTYL ALCOHOL/CN
E6            1     7-PHENYLHEPTYL BROMIDE/CN
E7            1     7-PHENYLHEPTYL CHLORIDE/CN
E8            1     7-PHENYLHEPTYL METHACRYLATE/CN
E9            1     7-PHENYLHEPTYL SODIUM SULFATE/CN
E10           1     7-PHENYLHEPTYLAMINE/CN
E11           1     7-PHENYLHEXADECANE/CN
E12           1     7-PHENYLIMIDAZO(1,2-A)PYRIDINE/CN

=> e 7-phenyl-2-heptenoic acid/cn
E1            1     7-PHENYL-2-ANILINO-1-PHENYL-1,8-NAPHTHYRIDIN-4(1H)-ONE/CN
E2            1     7-PHENYL-2-HEPTANONE/CN
E3            0 --> 7-PHENYL-2-HEPTENOIC ACID/CN
E4            1     7-PHENYL-2-NAPHTHALENOL/CN
E5            1     7-PHENYL-2-NAPHTHOL/CN
E6            1     7-PHENYL-2-OCTANONE/CN
E7            1     7-PHENYL-2-OXA-7-AZABICYCLO(3.2.0)HEPTAN-6-ONE/CN
E8            1     7-PHENYL-2-OXEPANONE/CN
E9            1     7-PHENYL-3,4-DIHYDRO-1(2H)-NAPHTHALENONE/CN
E10           1     7-PHENYL-3,6-DIOXAHEPTYL P-TOLUENESULFONATE/CN
E11           1     7-PHENYL-3,6-DIOXAHEPTYL TOSYLATE/CN
E12           1     7-PHENYL-3-(2-(4-PYRIDYL)-1,3-THIAZOL-4-YL)-1,2,3,4-TETRAHYD
                    ROQUINAZOLIN-2-ONE/CN

=> e 7-phenyl-2-octenoic acid/cn
E1            1     7-PHENYL-2-NAPHTHOL/CN
E2            1     7-PHENYL-2-OCTANONE/CN
E3            0 --> 7-PHENYL-2-OCTENOIC ACID/CN
E4            1     7-PHENYL-2-OXA-7-AZABICYCLO(3.2.0)HEPTAN-6-ONE/CN
E5            1     7-PHENYL-2-OXEPANONE/CN
E6            1     7-PHENYL-3,4-DIHYDRO-1(2H)-NAPHTHALENONE/CN
E7            1     7-PHENYL-3,6-DIOXAHEPTYL P-TOLUENESULFONATE/CN
E8            1     7-PHENYL-3,6-DIOXAHEPTYL TOSYLATE/CN
E9            1     7-PHENYL-3-(2-(4-PYRIDYL)-1,3-THIAZOL-4-YL)-1,2,3,4-TETRAHYD
                    ROQUINAZOLIN-2-ONE/CN
E10           1     7-PHENYL-3-(3-TRIFLUOROMETHYLPHENYL)-4,6,7,8-TETRAHYDRO-1H-C
                    INNOLIN-5-ONE/CN
E11           1     7-PHENYL-3-(3-TRIFLUOROMETHYLPHENYL)-7,8-DIHYDRO-6H-CINNOLIN
                    -5-ONE/CN
E12           1     7-PHENYL-3-(PYRAZIN-2-YL)-6-(1H-1,2,4-TRIAZOL-3-YLMETHOXY)-1
                    ,2,4-TRIAZOLO(4,3-B)PYRIDAZINE/CN

=> logoff hold
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                               1.80      35.05
```

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.56

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:19:07 ON 23 MAY 2007

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LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
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FILE 'REGISTRY' ENTERED AT 08:22:06 ON 23 MAY 2007
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.80	35.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.56

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.25	35.50

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.56

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FILE COVERS 1907 - 23 May 2007 VOL 146 ISS 22
FILE LAST UPDATED: 22 May 2007 (20070522/ED)

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```
=> eneyne
            47 ENEYNE
             6 ENEYNES
L5          50 ENEYNE
                (ENEYNE OR ENEYNES)

=> d l5 40-50 ti

L5   ANSWER 40 OF 50  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Biradical formation from acyclic conjugated eneyne-allene system
     related to neocarzinostatin and esperamicin-calichemicin

L5   ANSWER 41 OF 50  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   The synthesis of trans-(Me3CO)3W.tplbond.CCH:CHC.tplbond.W(OCMe3)3,
     cis,cis-(Me3CO)3W.tplbond.CCH:CHC.tplbond.CCH:CHC.tplbond.W(OCMe3)3, and
     related metal-capped ene-ynes, and evaluation of them as catalysts for
     preparing polydiacetylenes

L5   ANSWER 42 OF 50  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Acetylene-terminated aromatic enyne resins

L5   ANSWER 43 OF 50  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Alkylation of enamines by 5-halo-3-en-1-ynes

L5   ANSWER 44 OF 50  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Unusual complexes formed by reaction of diiron nonacarbonyl with
     1-ene-3-yne molecules

L5   ANSWER 45 OF 50  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Adducts of sulfonyl iodides with acetylenes

L5   ANSWER 46 OF 50  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Rapid micromethod for location of eneyne and α-hydroxy
     conjugated diene systems in straigth-chain compounds

L5   ANSWER 47 OF 50  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Evaluation of commercial chamomile preparations.  Determination and
     stability of the dicyclic enyne ether and chamazulene in chamomile
     preparations

L5   ANSWER 48 OF 50  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Reaction of carbenes with conjugated eneyne compounds

L5   ANSWER 49 OF 50  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Synthesis of eneynes by the method of exhaustive methylation

L5   ANSWER 50 OF 50  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Preparation of butadiene from ethyl alcohol


=> carboxyl
         73778 CARBOXYL
           740 CARBOXYLS
L6       74189 CARBOXYL
                (CARBOXYL OR CARBOXYLS)

=> l5 and l6
L7           0 L5 AND L6

=> ?eneyne?
L8         116 ?ENEYNE?
```

=> l6 and l8
L9 0 L6 AND L8

=> d l5 29-39 ti

L5 ANSWER 29 OF 50 CAPLUS COPYRIGHT 2007 ACS on STN
TI Synthesis of a reactive [7.4.1]enediyne and a stable eneyne -allene

L5 ANSWER 30 OF 50 CAPLUS COPYRIGHT 2007 ACS on STN
TI Tandem Eneyne Allene-Radical Cyclization via [3,3] Sigmatropic Rearrangements

L5 ANSWER 31 OF 50 CAPLUS COPYRIGHT 2007 ACS on STN
TI Cyclopropyl building blocks for organic synthesis. 25. Palladium(0)-catalyzed coupling reactions of 2-alkoxy-1-ethynylcyclopropanes with aryl and ethenyl halides: preparation of cyclopropyl substituted ethynylarenes, eneynes and enediynes

L5 ANSWER 32 OF 50 CAPLUS COPYRIGHT 2007 ACS on STN
TI Revolveneynes: novel eneyneparacyclophanes by sequential palladium coupling

L5 ANSWER 33 OF 50 CAPLUS COPYRIGHT 2007 ACS on STN
TI Tandem eneyne allene-radical cyclization via [2,3] sigmatropic shifts

L5 ANSWER 34 OF 50 CAPLUS COPYRIGHT 2007 ACS on STN
TI Synthesis and investigations of enetetraynes

L5 ANSWER 35 OF 50 CAPLUS COPYRIGHT 2007 ACS on STN
TI A photochemically triggered DNA cleaving agent: synthesis, mechanistic and DNA cleavage studies on a new analog of the anti-tumor antibiotic dynemicin

L5 ANSWER 36 OF 50 CAPLUS COPYRIGHT 2007 ACS on STN
TI Cyclotrimerization versus nonaromatic polyene formation in catalyzed cure of an arylpropargyl ether-terminated monomer

L5 ANSWER 37 OF 50 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of phenyl-substituted propargylic alcohol dicobalt hexacarbonyls and their reactions with active methylene compounds in the presence of acid

L5 ANSWER 38 OF 50 CAPLUS COPYRIGHT 2007 ACS on STN
TI Synthesis of a [5.5.5.5]fenestrenedione via tandem Pauson-Khand tetracyclization

L5 ANSWER 39 OF 50 CAPLUS COPYRIGHT 2007 ACS on STN
TI Antitumor antibiotic neocarzinostatin. Mechanism of DNA cleavage and the design of model system

=> d l5 37 ti fbib abs

L5 ANSWER 37 OF 50 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of phenyl-substituted propargylic alcohol dicobalt hexacarbonyls and their reactions with active methylene compounds in the presence of acid
AN 1992:490477 CAPLUS
DN 117:90477
TI Preparation of phenyl-substituted propargylic alcohol dicobalt hexacarbonyls and their reactions with active methylene compounds in the

presence of acid
AU Sun, Shouheng; Chen, Weibing; Zhang, Wenwei; Li, Dongwen; Meng, Qingjin; You, Xiaozeng
CS Coord. Chem. Inst., Nanjing Univ., Nanjing, 210008, Peop. Rep. China
SO Chinese Journal of Chemistry (1992), 10(1), 20-5
CODEN: CJOCEV; ISSN: 1001-604X
DT Journal
LA English
OS CASREACT 117:90477
AB Eight new complexes with the formula [PhC.tplbond.CC(OH)R1R2]Co2(CO)6 (R1 = R2 = Me, cyclohexyl, Ph; R1 = Me, R2 = Ph; R1 = H, R2 = 4-BrC6H4, 4-ClC6H4, 4-FC6H4, 4-O2NC6H4) were prepared from Ph substituted propargylic alcs. and Co2(CO)8. The reactions of these propargylic alc. complexes with active methylene compds., 2,4-pentanedione or Et acetoacetate, or an acid (HBF4(40%) + P2O5 (in excess) or BF3·Et2O) at room temperature in CH2Cl2 were investigated. From the 1-alkyl substituted tertiary propargylic alc. complexes, three new conjugated eneyne complexes produced by intramol. dehydration in 82-95% yield. On the other hand, four new alkylated complexes were obtained with satisfactory yields (44-66%) from the secondary propargylic alc. complexes. The influence of other acids, phosphorus pentoxide and polyphosphoric acid, on both dehydration reaction and alkylated reaction was also studied.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	20.10	55.60

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.78	-2.34

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	20.10	55.60

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.78	-2.34

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -0.78      -2.34

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DICTIONARY FILE UPDATES:  22 MAY 2007  HIGHEST RN 935655-41-7

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on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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E2            1     7-PHENYL-2,4,6-HEPTATRIENOYLHYDROXAMIC ACID/CN
E3            0 --> 7-PHENYL-2,4-HEPTADIENOIC ACID/CN
E4            1     7-PHENYL-2,5-HEPTANEDIONE/CN
E5            1     7-PHENYL-2,5-NORBORNADIENE/CN
E6            1     7-PHENYL-2-(4-(PHENYLETHYNYL)THIOPHEN-2-YL)-N-(2-(THIOPHEN-2
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E9            1     7-PHENYL-2-HEPTANONE/CN
E10           1     7-PHENYL-2-NAPHTHALENOL/CN
E11           1     7-PHENYL-2-NAPHTHOL/CN
E12           1     7-PHENYL-2-OCTANONE/CN

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L10           1 "7-PHENYL-2,4,6-HEPTATRIENOIC ACID"/CN

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L10  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   6460-62-4  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   2,4,6-Heptatrienoic acid, 7-phenyl- (7CI, 8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   6-Phenyl-1,3,5-hexadiene-1-carboxylic acid
CN   7-Phenyl-2,4,6-heptatrienoic acid
CN   Phenylbutadieneacrylic acid
MF   C13 H12 O2
CI   COM
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST, TOXCENTER,
       USPAT2, USPATFULL
         (*File contains numerically searchable property data)
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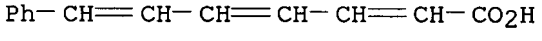

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
18 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                     7.80      63.40

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CA SUBSCRIBER PRICE                                     0.00      -2.34

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FILE LAST UPDATED: 22 May 2007  (20070522/ED)

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       4406710 PREP/RL
L11         11 L10/PREP
                 (L10 (L) PREP/RL)

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L11  ANSWER 5 OF 11  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Preparation of arylalkanoylhydroxamic acids as histone deacetylase
     inhibitors for treatment of cancer, hematological disorders, and genetic
     related metabolic disorders
AN   2002:755255  CAPLUS
DN   137:262851
TI   Preparation of arylalkanoylhydroxamic acids as histone deacetylase
     inhibitors for treatment of cancer, hematological disorders, and genetic
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related metabolic disorders
IN Lan-Hargest, Hsuan-yin; Kaufman, Robert J.; Wiech, Norbert L.
PA USA
SO U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 8

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI US 2002143196	A1	20021003	US 2001-812944		20010327
US 6495719	B2	20021217			
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US 2003083521	A1	20030501	US 2002-307321		20021202
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PATENT FAMILY INFORMATION:
FAN 2002:754352

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FAN 2002:755220

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FAN 2003:950833

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003099272	A1	20031204	WO 2003-US15839	20030521

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FAN 2003:950971

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FAN 2003:950999

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PI	WO 2003099789	A1	20031204	WO 2003-US15838	20030521

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				US 2002-382077P	P 20020522
	CA 2486402	A1	20031204	CA 2003-2486402	20030521
				US 2002-382077P	P 20020522
				WO 2003-US15838	W 20030521
	AU 2003247390	A1	20031212	AU 2003-247390	20030521
				US 2002-382077P	P 20020522
				WO 2003-US15838	W 20030521
	US 2004023944	A1	20040205	US 2003-442191	20030521
	US 7214831	B2	20070508		
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FAN	2004:453179				
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				US 2002-427567P	P 20021120
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	AU 2003291097	A1	20040615	AU 2003-291097	20031119
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PI	US 2004167184	A1	20040826	US 2003-715377	20031119
				US 2001-812940	B1 20010327
				US 2001-25947	A2 20011226
				US 2002-427567P	P 20021120
	US 2002143037	A1	20021003	US 2001-25947	20011226
				US 2001-812940	B1 20010327

OS MARPAT 137:262851

AB Title compds. AY1LY2C(:X1)N(R1)X2R2 (I) [wherein A = (un)substituted (hetero)cycloalkyl, (hetero)cycloalkenyl, (hetero)aryl; X1 and X2 = independently O or S; Y1 and Y2 = independently CH2, O, S, NRa, NRaCO2, OCONRa, NRaCONRb, CO2, or OCO2; or Y1 = a bond; Ra and Rb = independently H, (hydroxy)alkyl, alkenyl, alkynyl, alkoxy, OH, or haloalkyl; L = (un)substituted straight hydrocarbon chain optionally containing at least one double and/or triple bond and optionally interrupted by O, NRg, NRgCO2, OCONRg, NRgCONRh, OCO, CO2, or OCO2; Rg and Rh = independently H, (hydroxy)alkyl, alkenyl, alkynyl, alkoxy, OH, or haloalkyl; R1 = H, (hydroxy)alkyl, alkenyl, alkynyl, alkoxy, OH, haloalkyl, or an amino protecting group; R2 = H, (hydroxy)alkyl, haloalkyl, or hydroxy protecting group; or salts thereof] where prepared with Zn-binding moieties, such as hydroxamic acid groups, for inhibiting histone deacetylation activity in cells. For example, Et (trans)-cinnamate was treated with MeMgI in anhydrous ether to give 4-phenyl-2-methyl-3-buten-2-ol, which was converted to 3-methyl-5-phenyl-2,4-pentadienal using PO3Cl in DMF. Oxidation of the aldehyde to the acid with aqueous AgNO3 in EtOH, followed by addition of HONH2•HCl in the presence of TEA and iso-Bu chloroformate afforded 3-methyl-5-phenyl-2,4-pentadienoylhydroxamic acid (II). Test compds. of

the invention showed potent inhibition of histone deacetylase with IC50 values in the low μM range; e.g. two test compds. showed IC50 values of 1.7 μM and 1.9 μM. Histone deacetylase inhibition can repress gene expression, including expression of genes related to tumor suppression. Thus, I provide an alternate route for treating cancer, hematol. disorders, e.g., hemoglobinopathies, and genetic related metabolic disorders, e.g., cystic fibrosis and adrenoleukodystrophy (no data).

L11 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of arylalkanoic acids and hydroxamic acids as histone deacetylase inhibitors for treatment of cancer, hematological disorders, and genetic related metabolic disorders
AN 2002:755220 CAPLUS
DN 137:262850
TI Preparation of arylalkanoic acids and hydroxamic acids as histone deacetylase inhibitors for treatment of cancer, hematological disorders, and genetic related metabolic disorders
IN Lan-Hargest, Hsuan-yin; Kaufman, Robert J.; Wiech, Norbert L.
PA USA
SO U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 8

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PI US 2002143052	A1	20021003	US 2001-812945		20010327
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			US 2001-812944	A	20010327
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			US 2001-25947	A	20011226
			WO 2002-US8836	W	20020325
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			US 2001-812944	A	20010327
			US 2001-812945	A	20010327
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			WO 2002-US8836	W	20020325

US 2003125306	A1	20030703	US 2002-318225		20021213
			US 2001-812945	A3	20010327
US 2005107348	A1	20050519	US 2004-19303		20041223
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US 2005171208	A1	20050804	US 2005-59377		20050217
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			US 2001-812944	A3	20010327
			US 2001-812945	A2	20010327
			US 2002-382075P	P	20020522
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			US 2003-442175	A1	20030521
			US 2003-442177	A3	20030521
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			US 2005-198293	A1	20050808

PATENT FAMILY INFORMATION:

FAN 2002:754352

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	US 2002143196	A1	20021003	US 2001-812944		20010327
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				WO 2002-US8836	W	20020325

FAN 2002:755255

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PI	US 2002143196	A1	20021003	US 2001-812944		20010327
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				WO 2002-US8836	W	20020325
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				US 2001-812944	A3	20010327
	US 2007037869	A1	20070215	US 2006-489519		20060720
				US 2001-812944	A3	20010327
				US 2001-812945	A2	20010327
				US 2002-382075P	P	20020522
				US 2002-382077P	P	20020522
				US 2002-382089P	P	20020522
				US 2003-442175	A1	20030521
				US 2003-442177	A3	20030521
				US 2003-442191	A1	20030521
				US 2005-59377	A2	20050217
				US 2005-198293	A1	20050808

FAN 2003:950833

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			US 2002-382089P	P	20020522
			WO 2003-US15839	W	20030521
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			US 2002-382089P	P	20020522
			WO 2003-US15839	W	20030521
US 2004029922	A1	20040212	US 2003-442177		20030521
US 7057057	B2	20060606			
			US 2002-382089P	P	20020522
EP 1511477	A1	20050309	EP 2003-755395		20030521

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			WO 2003-US15839	W	20030521
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			US 2002-382089P	P	20020522
			US 2003-442177	A3	20030521

FAN 2003:950971

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI WO 2003099760	A1	20031204	WO 2003-US15996		20030521

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FAN 2004:453179

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TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
US 2002-427567P P 20021120

CA 2506504 A1 20040603 CA 2003-2506504 20031119
US 2002-427567P P 20021120
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AU 2003291097 A1 20040615 AU 2003-291097 20031119
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WO 2003-US36981 W 20031119

EP 1567142 A2 20050831 EP 2003-783686 20031119
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
US 2002-427567P P 20021120
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JP 2006508986 T 20060316 JP 2004-553939 20031119
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IN 2005DN02110 A 20070119 IN 2005-DN2110 20050518
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FAN 2004:701812

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2004167184	A1	20040826	US 2003-715377	20031119
			US 2001-812940	B1 20010327
			US 2001-25947	A2 20011226
			US 2002-427567P	P 20021120
US 2002143037	A1	20021003	US 2001-25947	20011226
			US 2001-812940	B1 20010327

OS MARPAT 137:262850

AB Title compds. AY1LY2C(:X1)X2 (I) [wherein A = (un)substituted (hetero)cycloalkyl, (hetero)cycloalkenyl, (hetero)aryl; or A = (un)substituted hydrocarbon chain interrupted by O, S, NRa, CO, NRaSO2,

SO2NRa, NRaCO2, OCONRa, NRaCONRb, OCO, CO2, OSO2, SO2O, or OCO2; Y1 and Y2 = independently CH2, O, S, NRc, NRcCO2, OCONRc, NRcCONRd, OCO2, or a bond; Ra, Rb, Rc, and Rd = independently H, (hydroxy)alkyl, alkenyl, alkynyl, alkoxy, OH, or haloalkyl; L = (un)substituted straight hydrocarbon chain optionally containing at least one double and/or triple bond; X1 = O or S; X2 = OR1, SR1, NR3OR1, NR3SR1, CO2R1, CHR4OR1, N:NCON(R3)2, or OCHR4OCOR5; R1 and R2 = independently H, (hydroxy)alkyl, haloalkyl, or hydroxy protecting group; R3 = H, (hydroxy)alkyl, alkenyl, alkynyl, alkoxy, OH, haloalkyl, or amino protecting group; R4 = OH, (hydroxy)alkyl, or haloalkyl; R5 = (hydroxy)alkyl or haloalkyl; provided that when L = Et or Pr and X2 = OR1, then Y1 ≠ a bond and Y2 ≠ a bond; or salts thereof] where prepared with Zn-binding moieties, such as hydroxamic acid or carboxylic acid groups, for inhibiting histone deacetylation activity in cells. For example, Et (trans)-cinnamate was treated with MeMgI in anhydrous ether to give 4-phenyl-2-methyl-3-buten-2-ol, which was converted to 3-methyl-5-phenyl-2,4-pentadienal using PO3Cl in DMF. Oxidation of the aldehyde with aqueous AgNO3 in EtOH afforded the desired 3-methyl-5-phenyl-2,4-pentadienoic acid (II). Test compds. of the invention showed potent inhibition of histone deacetylase with IC50 values in the low μM range; e.g. two test compds. showed IC50 values of 1.7 μM and 1.9 μM. Histone deacetylase inhibition can repress gene expression, including expression of genes related to tumor suppression. Thus, I provide an alternate route for treating cancer, hematol. disorders, e.g., hemoglobinopathies, and genetic related metabolic disorders, e.g., cystic fibrosis and adrenoleukodystrophy (no data).

L11 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of arylalkanoic acids and hydroxamic acids as histone deacetylase inhibitors for treatment of cancer, hematological disorders, and genetic related metabolic disorders
AN 2002:754352 CAPLUS
DN 137:262849
TI Preparation of arylalkanoic acids and hydroxamic acids as histone deacetylase inhibitors for treatment of cancer, hematological disorders, and genetic related metabolic disorders
IN Lan-Hargest, Hsuan-Yin; Kaufman, Robert J.; Wiech, Nobert L.
PA Circagen Pharmaceutical, USA
SO PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 8

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002076941	A2	20021003	WO 2002-US8836	20020325
WO 2002076941	A3	20040212		
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			US 2001-812940	A1 20010327
			US 2001-812944	A1 20010327
			US 2001-812945	A1 20010327
			US 2001-25947	A1 20011226
US 2002143196	A1	20021003	US 2001-812944	20010327
US 6495719	B2	20021217		
US 2002143052	A1	20021003	US 2001-812945	20010327

	US 2002143037	A1	20021003	US 2001-25947		20011226
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				US 2001-812944	A	20010327
				US 2001-812945	A	20010327
				US 2001-25947	A	20011226
				WO 2002-US8836	W	20020325
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				US 2001-812944	A	20010327
				US 2001-812945	A	20010327
				US 2001-25947	A	20011226
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				US 2001-812944	A	20010327
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PATENT FAMILY INFORMATION:

FAN 2002:755220

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				US 2001-25947	A	20011226
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				WO 2002-US8836	W	20020325

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	US 2005107348	A1	20050519	US 2004-19303		20041223
				US 2001-812945	A3	20010327
	US 2005171208	A1	20050804	US 2005-59377		20050217
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				US 2001-812944	A3	20010327
				US 2001-812945	A2	20010327
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				US 2002-382077P	P	20020522
				US 2002-382089P	P	20020522
				US 2003-442175	A1	20030521
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				US 2003-442191	A1	20030521
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				US 2005-198293	A1	20050808

FAN 2002:755255

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				US 2001-25947	A	20011226
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				US 2001-812944	A3	20010327
	US 2007037869	A1	20070215	US 2006-489519		20060720
				US 2001-812944	A3	20010327
				US 2001-812945	A2	20010327

				US 2002-382075P	P 20020522
				US 2002-382077P	P 20020522
				US 2002-382089P	P 20020522
				US 2003-442175	A1 20030521
				US 2003-442177	A3 20030521
				US 2003-442191	A1 20030521
				US 2005-59377	A2 20050217
				US 2005-198293	A1 20050808

FAN 2003:950833

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003099272	A1	20031204	WO 2003-US15839	20030521
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				WO 2003-US15839	W 20030521
	AU 2003243272	A1	20031212	AU 2003-243272	20030521
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	US 2004029922	A1	20040212	US 2003-442177	20030521
	US 7057057	B2	20060606		
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	EP 1511477	A1	20050309	EP 2003-755395	20030521
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				WO 2003-US15839	W 20030521
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				US 2003-442177	A3 20030521

FAN 2003:950971

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PI	WO 2003099760	A1	20031204	WO 2003-US15996	20030521
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	AU 2003243285	A1	20031212	AU 2003-243285	20030521
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	US 2004029903	A1	20040212	US 2003-442175	20030521
	US 7193105	B2	20070320		

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FAN 2004:453179

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FAN 2004:701812

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				US 2001-812940	B1	20010327

OS MARPAT 137:262849

AB Title compds. AY1LY2C(:X1)X2 (I) [wherein A = (un)substituted (hetero)cycloalkyl, (hetero)cycloalkenyl, (hetero)aryl; or A = (un)substituted hydrocarbon chain interrupted by O, S, NRa, CO, NRaSO2, SO2NRa, NRaCO2, OCONRa, NRaCONRb, OCO, CO2, OSO2, SO2O, or OCO2; Y1 and Y2 = independently CH2, O, S, NRc, NRcCO2, OCONRc, NRcCONRd, OCO2, or a bond; Ra, Rb, Rc, and Rd = independently H, (hydroxy)alkyl, alkenyl, alkynyl, alkoxy, OH, or haloalkyl; L = (un)substituted straight hydrocarbon chain optionally containing at least one double and/or triple bond; X1 = O or S; X2 = OR1, SR1, NR3OR1, NR3SR1, CO2R1, CHR4OR1, N:NCON(R3)2, or OCHR4OCOR5; R1 and R2 = independently H, (hydroxy)alkyl, haloalkyl, or hydroxy protecting group; R3 = H, (hydroxy)alkyl, alkenyl, alkynyl, alkoxy, OH, haloalkyl, or amino protecting group; R4 = OH, (hydroxy)alkyl, or haloalkyl; R5 = (hydroxy)alkyl or haloalkyl; provided that when L = Et or Pr and X2 = OR1, then Y1 ≠ a bond and Y2 ≠ a bond; or salts thereof] where prepared with Zn-binding moieties, such as hydroxamic acid or carboxylic acid groups, for inhibiting histone deacetylation activity in cells. For example, Et (trans)-cinnamate was treated with MeMgI in anhydrous ether to give 4-phenyl-2-methyl-3-buten-2-ol, which was converted to 3-methyl-5-phenyl-2,4-pentadienal using PO3Cl in DMF. Oxidation of the aldehyde with aqueous AgNO3 in EtOH afforded the desired 3-methyl-5-phenyl-2,4-pentadienoic acid (II). Test compds. of the invention showed potent inhibition of histone deacetylase with IC50 values in the low μM range; e.g. two test compds. showed IC50 values of 1.7 μM and 1.9 μM. Histone deacetylase inhibition can repress gene expression, including expression of genes related to tumor suppression. Thus, I provide an alternate route for treating cancer, hematol. disorders, e.g., hemoglobinopathies, and genetic related metabolic disorders, e.g., cystic fibrosis and adrenoleukodystrophy (no data).

L11 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of light-sensitive compounds containing conjugated double bonds, and their photolytic transformations

AN 1975:459527 CAPLUS

DN 83:59527

TI Preparation of light-sensitive compounds containing conjugated double bonds, and their photolytic transformations

AU Voskoboinik, G. A.; Fedorov, Yu. I.; Kozlova, T. P.; Ryabov, A. V.

CS Gor'k. Gos. Univ. im. Lobachevskogo, Gorki, USSR

SO Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya Tekhnologiya (1974), 17(6), 861-4
CODEN: IVUKAR; ISSN: 0579-2991

DT Journal

LA Russian

AB Light-sensitive condensation products of phenol [108-95-2] with unsatd. aliphatic and aromatic aldehydes, and esters of these reaction products were prepared, identified by uv and ir spectroscopy and the transformations, occurring in these compds. under the effect of light, were examined Crotonaldehyde, octatrienal [17609-31-3], decatetraenal [40650-87-1],

dodecapentaenal [53193-45-6], cinnamic aldehyde [104-55-2], and phenylpentadienal [13466-40-5] were prepared, and on reaction with PhOH gave condensation products, which were esterified with cinnamic acid [621-82-9], styreneacrylic acid [1552-94-9] and phenylbutadieneacrylic acid [6460-62-4].

L11 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
TI Synthesis of 5-aryl-2,4-pentadienals and 5-aryl-2,4,6-heptatrienoic acids
AN 1970:434990 CAPLUS
DN 73:34990
TI Synthesis of 5-aryl-2,4-pentadienals and 5-aryl-2,4,6-heptatrienoic acids
AU Dombrovskii, A. V.; Pribytkova, L. G.; Ganushchak, N. I.; Vengrzhanovskii, V. A.
CS Chernigov. Gos. Univ., Chernigov, USSR
SO Zhurnal Organicheskoi Khimii (1970), 6(5), 964-7
CODEN: ZORKAE; ISSN: 0514-7492
DT Journal
LA Russian
AB The reaction in the cold of XC6H4CH:CHCH:CH2 with POCl3HCONMe2 mixture in tetrahydrofuran gave 30-67% XC6H4CH:CHCH:CHCHO (I, X = H, p-Me, p-MeO, o-Cl, or p-Cl). The reaction of I with (EtO)2P(O)CHNaCO2Et gave 61-96% XC6H4CH:CHCH:CHCH:CHCO2Et which was saponified to the corresponding acid.

L11 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
TI (+)-(5S)-δ-Lactone of 5-hydroxy-7-phenylhepta-2,6-dienoic acid, a natural product from Cryptocarya caloneura
AN 1968:29406 CAPLUS
DN 68:29406
TI (+)-(5S)-δ-Lactone of 5-hydroxy-7-phenylhepta-2,6-dienoic acid, a natural product from Cryptocarya caloneura
AU Hlubucek, J. R.; Robertson, Alexander V.
CS Univ. Sydney, Sydney, Australia
SO Australian Journal of Chemistry (1967), 20(10), 2199-206
CODEN: AJCHAS; ISSN: 0004-9425
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB The structure, including absolute configuration, of a new compound extracted from C.
caloneura was determined by degradation as the (+)-(5S)-δ-lactone of 5-hydroxy-7-phenylhepta-2,6-dienoic acid (I). The structure was confirmed by synthesis of its racemate.

L11 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
TI Reactions with phosphinealkylenes. VIII. Novel synthesis of carboxylic acids from phosphine alkylenes
AN 1964:440194 CAPLUS
DN 61:40194
OREF 61:6945g-h,6946a-d
TI Reactions with phosphinealkylenes. VIII. Novel synthesis of carboxylic acids from phosphine alkylenes
AU Bestmann, Hans Juergen; Schulz, Heinz
CS Tech. Hochschule, Munich, Germany
SO Ann. (1964), 674, 11-17
DT Journal
LA Unavailable
AB cf. CA 59, 10111b. Phosphine alkylenes react with chlorocarbonates by transylidation to yield carbalkoxylated derivs. which can be used in various ways for the synthesis of carboxylic acids. Ph3P:CHCH:CH2 (I) reacted with ClCO2Me (II) in the γ-position to the P atom. A simple spot test for Ph3P is described. All reactions were performed under N. NaNH2 from 0.5 g. Na in about 100 cc. liquid NH3 treated. with 22 millimoles appropriate [RCH2PPh3]Cl (III), the NH3 evaporated, the residue

refluxed 10 min. with 100 cc. dry C6H6, treated dropwise with 0.01 mole suitable chloroformate in 50 cc. dry C6H6, and filtered from the III (80-100%), and the residue from the filtrate recrystd. yielded the corresponding R(R'O2C)C:PPh3 (IV). In this manner were prepared the following IV (R' = Me) (R, m.p., and % yield given): H, 164° (AcOEt), 80; Me, 145° (AcOEt), 95; Et, 125° (AcOEt-petr. ether), 88; Pr (V), 105° (C6H6-petr. ether), 96; Ph (VI), 155° (AcOEt), 80; cyclohexyl, -(oil),75. VI (1.00 g.) and 10 cc. 20% KOH in 1:1 MeOHH2O refluxed 2 hrs., filtered from Ph3PO, and acidified with 2N H2SO4 yielded 0.32 g. PhCH2CO2H, m. 76°. The yield from 17.4 g. hexahydrobenzyltriphenylphosphonium bromide treated with 2.16 g. ClCO2Et and the oily product saponified gave 1.9 g. cyclohexylacetic acid, b3 110-15°, m. 30°. [PrPPh3]Br (8.8 g.) converted to the yield, treated with II, and filtered, the filtrate refluxed 10 hrs. with 1.06 g. BzH, and the product refluxed 2 hrs. with 40 cc. KOH in 1:1 H2O-MeOH yielded 1.25 g. trans-PhCH:CEtCO2H, m. 105-6° (aqueous AcOH). V (2.00 g.) and 0.56 cc. BzH in 100 cc. dry AcOEt refluxed 8 hrs. yielded 0.78 g. trans-PhCH:CPrCO2H, needles, m. 93°. V (2.26 g.) and 0.71 cc. PhCH:CHCHO in 120 cc. dry AcOEt refluxed 24 hrs. gave similarly 0.87 g. PhCH:CHCH:CPrCO2H, needles, m. 145-6° (aqueous AcOH). PH3P:CMeCO2Et (21.7 g.) in C6H6 refluxed 2 hrs. with 6.0 g. BzCH2Br, filtered, concentrated to half-volume, refluxed 2 hrs. with 20 cc. MeI, filtered from 10.2 g. [MePPh3] I, and distilled gave 3.6 g. BzCH:CMeCO2Et, b0.4 160-5°; 2,4-dinitrophenylhydrazone, red, m. 149-50° (MeOH or AcOEt). [Ph3PCH2CH:CH2]Br (8.8 g.) converted to I, treated with 0.77 g. II, decanted from the oily precipitate, and evaporated, and the red oily product refluxed 2 hrs. with 50 cc. 2N NaOH in 1: 1 H2O-MeOH gave 0.32 g. MeCH:CHCO2H, m. 71°; dicyclohexylamine salt m. 127°. The oily salt from a similar run refluxed 20 hrs. with 0.71 cc. BzH and refluxed 20 hrs. and worked up in the usual manner yielded 0.25 g. PhCH:CHCH:CHCO2H, m. 136-40°. A similar run with 1.32 g. PhCH:CHCHO during 10 hrs. gave 0.57 g. Ph(CH:CH)3CO2H, m. 189-90° (becoming clear at 198°); also obtained in 50% yield from PH3P:CHCH:CHCO2Me with PhCH:CHCHO. Ph3P with p-O2NC6H4CH2Cl yields [p-O2NC6H4CH2PPh3]Cl which is converted by alkali to the deep red, stable p-O2NC6H4CH:PPh3. A 2% solution of p-O2NC6H4CH2Cl in C6H6 applied to filter paper, a few drops of the solution to be tested for Ph3P added, and the paper heated at 100-20° for a few min. and then treated with a drop of dilute aqueous NaOH gave a red color in the presence of Ph3P.

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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FULL ESTIMATED COST	45.49	108.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.46	-7.80

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FULL ESTIMATED COST	45.49	108.89

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.90	109.79

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.80

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COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                        0.90     109.79

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                          ENTRY    SESSION
CA SUBSCRIBER PRICE                                        0.00      -7.80

=> d his

     (FILE 'HOME' ENTERED AT 05:48:30 ON 23 MAY 2007)

     FILE 'REGISTRY' ENTERED AT 05:49:15 ON 23 MAY 2007
                E  HEXANOIC ACID, 6-((1-METHYL-5-NITRO-1H-IMIDAZOL-2-YL)THIO)-/
L1          3914 \E3
L2             1 E3
                E 7-PHENYL-5-HEXENOIC ACID/CN
L3             1 E2

     FILE 'CAPLUS' ENTERED AT 07:52:49 ON 23 MAY 2007
L4             2 L3

     FILE 'REGISTRY' ENTERED AT 08:16:41 ON 23 MAY 2007
                E 7-PHENYLHEPTENOIC ACID
                E 7-PHENYL HEPTENOIC ACID/CN
                E 7-PHENYLHEPTENOIC ACID/CN
                E 7-PHENYL-2-HEPTENOIC ACID/CN
                E 7-PHENYL-2-OCTENOIC ACID/CN

     FILE 'CAPLUS' ENTERED AT 08:22:52 ON 23 MAY 2007
L5            50 ENEYNE
L6         74189 CARBOXYL
L7             0 L5 AND L6
L8           116 ?ENEYNE?
L9             0 L6 AND L8

     FILE 'REGISTRY' ENTERED AT 08:47:02 ON 23 MAY 2007
                E 7-PHENYL-2,4-HEPTADIENOIC ACID/CN
L10            1 E1

     FILE 'CAPLUS' ENTERED AT 08:48:31 ON 23 MAY 2007
L11           11 L10/PREP

     FILE 'REGISTRY' ENTERED AT 09:48:22 ON 23 MAY 2007

=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                        1.35     110.24
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00      -7.80

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=> e 2,4,6,8-Nonatetraenoic acid, 2-cyano-9-phenyl-, (all-E)-/cn
E1            1      2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-(2-THIENYL)-, ETHYL E
                     STER/CN
E2            1      2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-/CN
E3            1 --> 2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-, (ALL-E)-/CN
E4            1      2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-, BUTYL ESTER/
                     CN
E5            1      2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-, ETHYL ESTER/
                     CN
E6            1      2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-, METHYL ESTER
                     /CN
E7            1      2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,3,6-TRI
                     METHYLPHENYL)-3,7-DIMETHYL-, ETHYL ESTER, (ALL-E)-/CN
E8            1      2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,3,6-TRI
                     METHYLPHENYL)-3,7-DIMETHYL-, ETHYL ESTER, (Z,E,E,E)-/CN
E9            1      2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,3,6-TRI
                     METHYLPHENYL)-3,7-DIMETHYL-, ETHYL ESTER, (Z,E,E,Z)-/CN
E10           1      2,4,6,8-NONATETRAENOIC ACID, 2-FLUORO-9-(4-METHOXY-2,5-DIMET
                     HYL-1,3-CYCLOHEXADIEN-1-YL)-3,7-DIMETHYL-, ETHYL ESTER, (ALL
                     -E)-/CN
E11           1      2,4,6,8-NONATETRAENOIC ACID, 2-METHOXY-9-PHENYL-, ETHYL ESTE
                     R/CN
E12           1      2,4,6,8-NONATETRAENOIC ACID, 2-METHYL-9-PHENYL-, METHYL ESTE
                     R, (2E,4E,6E,8E)-/CN

=> e3
L12           1 "2,4,6,8-NONATETRAENOIC ACID, 2-CYANO-9-PHENYL-, (ALL-E)-"/CN

=> file caplus
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    5.40     115.64
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=> 12
L13 1466966 12

=> l12
L14 1 L12

=> d l14 ti fbib abs it

L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
TI Structural effect in cross conjugative systems. IV. Properties of α-carboxyphenylpolyenic cyanides and the quantum chemical calculation of orbital energy and bond order
AN 1982:180289 CAPLUS
DN 96:180289
TI Structural effect in cross conjugative systems. IV. Properties of α-carboxyphenylpolyenic cyanides and the quantum chemical calculation of orbital energy and bond order
AU Liang, Desheng; Lai, Chugen; Chiang, Mingchien
CS Inst. Chem., Acad. Sin., Shanghai, Peop. Rep. China
SO Fenzi Kexue Xuebao (1981-1982) (1981), 1(1), 17-30
CODEN: FKXUDX; ISSN: 0253-3677
DT Journal
LA Chinese
AB all-trans-Ph(CH:CH)nCH:C(CN)CO2H (I) are prepared and their UV and mass spectra are observed The MO, π-energy differences, and π-bond orders of I are calculated by CNDO/2. The properties of I are correctly calculated by using the extended form of the homologous equation for the corresponding linear conjugated system (ω-phenylpolyenic nitriles) with an α-CO2H group substituent. Cross-conjugated systems may be generally treated by allowing 1 of the 2 branches to become the terminal group of a linear conjugated system while the other branch becomes the substituent.

IT Conjugation
(cross-, in α-carboxy(phenyl)polyolefinic nitriles, MO calcns. and)
IT Molecular orbital
(for cross-conjugated α-carboxy(phenyl)polyolefinic nitriles)
IT Resonance
(in α-carboxy(ω-phenyl)polyolefinic nitriles)
IT Mass spectra
(of α-carboxy(ω-phenyl)polyolefinic nitriles)
IT Homologous series
(of α-carboxy(ω-phenyl)polyolefinic nitriles and related linear conjugated systems, MO calcn. of)
IT Ultraviolet and visible spectra
(of α-carboxy(ω-phenyl)polyolefinic nitriles, MO calcn. and)
IT Bond order
(poly-, in cross-conjugated α-carboxy(phenyl)polyolefinic nitriles and related linear conjugated systems)
IT Stabilization energy
(resins, in cross-conjugated α-carboxy(phenyl)polyolefinic nitriles)
IT Carboxyl group
(α-, effect of, on bond order and UV of ω-phenylpolyolefinic nitriles)
IT Nitriles, properties
RL: PRP (Properties)
(α-carboxy substituted ω-phenylpolyenic, MO calcns. of)
IT Unsaturated compounds
RL: PRP (Properties)
(cross-conjugated, MO calcn. of UV and other properties of)
IT Energy level excitation
(electronic, of α-carboxy(ω-phenyl)polyolefinic nitriles and related linear conjugated systems, MO calcn. of)
IT 100-47-0, properties
RL: PRP (Properties)
(UV of, MO calcn. of)
IT 65-85-0, properties 93-58-3 98-86-2, properties 100-52-7, properties
140-10-3, properties 1885-38-7 14378-06-4 81620-80-6
RL: PRP (Properties)
(bond order and UV of, MO calcn. of)
IT 81620-81-7P 81620-82-8P 81620-83-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and UV and bond order of, MO calcn. of)
IT 10576-63-3P 28010-12-0P 53649-66-4P 81620-77-1P 81620-78-2P
81620-79-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and bond order and UV of, MO calcn. of)

=> 81620-82-8
REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L16 1 L15

=> display Hitstr l16
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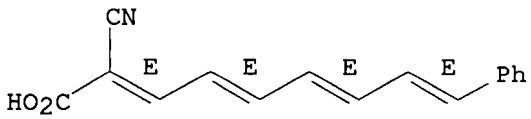
L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
IT 81620-82-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and UV and bond order of, MO calcn. of)
RN 81620-82-8 CAPLUS
CN 2,4,6,8-Nonatetraenoic acid, 2-cyano-9-phenyl-, (all-E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



=>
=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.14	139.35

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CA SUBSCRIBER PRICE	0.00	-8.58

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=> e 2,4,6-heptatrienoic acid, 2-cyano-7-phenyl-/cn
E1 1 2,4,6-HEPTATRIENOIC ACID, 2-CYANO-7-N-METHYLANILINO-, METHYL ESTER/CN
E2 1 2,4,6-HEPTATRIENOIC ACID, 2-CYANO-7-P-SULFAMOYLANILINO-, METHYL ESTER/CN
E3 1 --> 2,4,6-HEPTATRIENOIC ACID, 2-CYANO-7-PHENYL-/CN
E4 1 2,4,6-HEPTATRIENOIC ACID, 2-CYANO-7-PHENYL-, (E,E,E)-/CN

```
E5              1     2,4,6-HEPTATRIENOIC ACID, 2-CYANO-7-PHENYL-, BUTYL ESTER/CN
E6              1     2,4,6-HEPTATRIENOIC ACID, 2-CYANO-7-PHENYL-, COMPD. WITH (R)
                      -2-AMINO-1-BUTANOL (1:1)/CN
E7              1     2,4,6-HEPTATRIENOIC ACID, 2-CYANO-7-PHENYL-, COMPD. WITH (S)
                      -A-METHYL-1-NAPHTHALENEMETHANAMINE (1:1)/CN
E8              1     2,4,6-HEPTATRIENOIC ACID, 2-CYANO-7-PHENYL-, COMPD. WITH (S)
                      -A-METHYLBENZENEMETHANAMINE (1:1)/CN
E9              1     2,4,6-HEPTATRIENOIC ACID, 2-CYANO-7-PHENYL-, COMPD. WITH (S)
                      -N,N,N-TRIMETHYL-4-(4-(((4-(OCTADECYLOXY)-1-((OCTADECYLOXY)C
                      ARBONYL)-4-OXOBUTYL)AMINO)CARBONYL)PHENOXY)-1-BUTANAMINIUM B
                      ROMIDE (1:1)/CN
E10             1     2,4,6-HEPTATRIENOIC ACID, 2-CYANO-7-PHENYL-, COMPD. WITH .AL
                      PHA.-(1-(DIMETHYLAMINO)ETHYL)-A-PHENYLBENZENEETHANOL (
                      1:1)/CN
E11             1     2,4,6-HEPTATRIENOIC ACID, 2-CYANO-7-PHENYL-, COMPD. WITH 1-(
                      4-NITROPHENYL)-1,3-PROPANEDIOL (1:1)/CN
E12             1     2,4,6-HEPTATRIENOIC ACID, 2-CYANO-7-PHENYL-, COMPD. WITH 1-A
                      MINO-2-PROPANOL (1:1)/CN

=> e3
L17             1 "2,4,6-HEPTATRIENOIC ACID, 2-CYANO-7-PHENYL-"/CN

=> d l17

L17  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2007 ACS on STN
RN   126057-99-6  REGISTRY
ED   Entered STN:  23 Mar 1990
CN   2,4,6-Heptatrienoic acid, 2-cyano-7-phenyl- (9CI)  (CA INDEX
     NAME)
MF   C14 H11 N O2
CI   COM
SR   CA
LC   STN Files:   BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL
         (*File contains numerically searchable property data)
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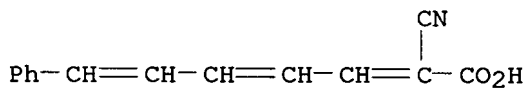


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              11 REFERENCES IN FILE CAPLUS (1907 TO DATE)


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FULL ESTIMATED COST                                       7.80     147.15

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                                                         ENTRY    SESSION
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=> l17/prep
            11 L17
       4406710 PREP/RL
L18          5 L17/PREP
                 (L17 (L) PREP/RL)

=> d l18 1-5 ti fbib abs
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L18 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of novel nonlinear organic materials
AN 1992:622489 CAPLUS
DN 117:222489
TI Preparation of novel nonlinear organic materials
AU Taketani, Y.; Shouji, A.; Iwata, K.
CS Tokyo Res. Cent., TEIJIN Ltd., Hino, 191, Japan
SO Nonlinear Opt., Proc. Toyota Conf. Nonlinear Opt. Mater., 5th (1992), Meeting Date 1991, 249-54. Editor(s): Miyata, Seizo. Publisher: North-Holland, Amsterdam, Neth.
CODEN: 58EMA7
DT Conference
LA English
AB Chiral-amine salts of α-cyanocinnamic acid derivs. with conjugated double bonds were prepared and their second harmonic generation (SHG) was investigated. Their hyperpolarizability (β) was calculated by the PPP MO method and indicates that the intramol. charge transfer is influenced by the substituents at the Ph group as well as the conjugation length. To break the centrosymmetry, chiral amines were introduced by salt formation. By x-ray anal., the cyano groups were found to point toward the same direction playing an important role in SHG.

L18 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
TI Organic nonlinear optical material
AN 1991:418282 CAPLUS
DN 115:18282
TI Organic nonlinear optical material
IN Takeya, Yutaka; Matsuzawa, Hiroshi; Iwata, Kaoru
PA Teijin Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 24 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02254425	A	19901015	JP 1989-74875	19890329

JP 1989-74875 19890329

AB The title nonlinear optical material is a salt or amide obtained by reacting an α-cyanocarboxylic acid containing a conjugated double bond(s) with an optically active amine. The material has improved 2nd harmonic generation capability and is useful in optical switches, memories, and bistable devices.

L18 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
TI Aromatic acid amine salt multilayer film with structural periodicity
AN 1991:193378 CAPLUS
DN 114:193378
TI Aromatic acid amine salt multilayer film with structural periodicity
IN Takeya, Yutaka; Matsuzawa, Hiroshi; Iwata, Kaoru
PA Teijin Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02193954	A	19900731	JP 1989-11861	19890123
				JP 1989-11861	19890123

OS MARPAT 114:193378
AB The multilayer film, with periodical structure in the thickness orientation, comprises C10-22 linear alkylamine salt of aromatic conjugated acid R(CH:CH)lCH:C(CN)CO2H [l = 0,1,2; R = (substituted) aromatic residue]. Me cyanate and p-dimethylaminocinnamoyl aldehyde were treated to give 5-(4-dimethylaminophenyl)-2-cyano-2,4-pentadienoic acid (I). The solution of I and a solution of C18H37COCHNHCOC6H4C18H37CO(CH2)2O(CH2)4NMe3Br were repeatedly contacted to give the multilayer film useful for elec. materials, waveguides, optoelec. devices, etc.

L18 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
TI (Aryl)alkylidenecyanoacetic acid salts with chiral amines as nonlinear optical materials having increased second harmonic generating ability and stability to laser light
AN 1990:216448 CAPLUS
DN 112:216448
TI (Aryl)alkylidenecyanoacetic acid salts with chiral amines as nonlinear optical materials having increased second harmonic generating ability and stability to laser light
IN Taketani, Yutaka; Matsuzawa, Hiroshi; Iwata, Kaoru
PA Teijin Ltd., Japan
SO Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 10

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 335641	A2	19891004	EP 1989-303013	19890328
	EP 335641	A3	19910313		
	EP 335641	B1	19940105		
	R: DE, FR, GB				
				JP 1988-72080 A	19880328
				JP 1988-118327 A	19880517
				JP 1988-288978 A	19881117
	JP 01245230	A	19890929	JP 1988-72080	19880328
	JP 01288831	A	19891121	JP 1988-118327	19880517
	JP 02138163	A	19900528	JP 1988-288978	19881117

PATENT FAMILY INFORMATION:
FAN 1990:506081

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 01300234	A	19891204	JP 1988-130090		19880530
	US 5196147	A	19930323	US 1989-329746		19890328
				JP 1988-72080	A	19880328
				JP 1988-118327	A	19880517
				JP 1988-130090	A	19880530
				JP 1988-223592	A	19880908
				JP 1988-223593	A	19880908
				JP 1988-226491	A	19880912
				JP 1988-227428	A	19880913
				JP 1988-286902	A	19881115
				JP 1988-286903	A	19881115
				JP 1988-288978	A	19881117
				JP 1988-288979	A	19881117
				JP 1988-326099	A	19881226

FAN 1990:523533

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 02077025	A	19900316	JP 1988-227428		19880913
	US 5196147	A	19930323	US 1989-329746		19890328
				JP 1988-72080	A	19880328
				JP 1988-118327	A	19880517
				JP 1988-130090	A	19880530
				JP 1988-223592	A	19880908
				JP 1988-223593	A	19880908
				JP 1988-226491	A	19880912
				JP 1988-227428	A	19880913
				JP 1988-286902	A	19881115
				JP 1988-286903	A	19881115
				JP 1988-288978	A	19881117
				JP 1988-288979	A	19881117
				JP 1988-326099	A	19881226

FAN 1990:562199

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 02073236	A	19900313	JP 1988-223592		19880908
	US 5196147	A	19930323	US 1989-329746		19890328
				JP 1988-72080	A	19880328
				JP 1988-118327	A	19880517
				JP 1988-130090	A	19880530
				JP 1988-223592	A	19880908
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				JP 1988-226491	A	19880912
				JP 1988-227428	A	19880913
				JP 1988-286902	A	19881115
				JP 1988-286903	A	19881115
				JP 1988-288978	A	19881117
				JP 1988-288979	A	19881117
				JP 1988-326099	A	19881226

FAN 1990:562200

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 02073237	A	19900313	JP 1988-223593		19880908
	US 5196147	A	19930323	US 1989-329746		19890328
				JP 1988-72080	A	19880328
				JP 1988-118327	A	19880517
				JP 1988-130090	A	19880530
				JP 1988-223592	A	19880908
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				JP 1988-226491	A	19880912
				JP 1988-227428	A	19880913
				JP 1988-286902	A	19881115

				JP 1988-286903	A	19881115
				JP 1988-288978	A	19881117
				JP 1988-288979	A	19881117
				JP 1988-326099	A	19881226

FAN 1990:600998

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 02074931	A	19900314	JP 1988-226491		19880912
	US 5196147	A	19930323	US 1989-329746		19890328
				JP 1988-72080	A	19880328
				JP 1988-118327	A	19880517
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				JP 1988-286902	A	19881115
				JP 1988-286903	A	19881115
				JP 1988-288978	A	19881117
				JP 1988-288979	A	19881117
				JP 1988-326099	A	19881226

FAN 1991:91597

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 02134622	A	19900523	JP 1988-286902		19881115
	US 5196147	A	19930323	US 1989-329746		19890328
				JP 1988-72080	A	19880328
				JP 1988-118327	A	19880517
				JP 1988-130090	A	19880530
				JP 1988-223592	A	19880908
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				JP 1988-286902	A	19881115
				JP 1988-286903	A	19881115
				JP 1988-288978	A	19881117
				JP 1988-288979	A	19881117
				JP 1988-326099	A	19881226

FAN 1991:91598

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 02134623	A	19900523	JP 1988-286903		19881115
	US 5196147	A	19930323	US 1989-329746		19890328
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				JP 1988-288979	A	19881117
				JP 1988-326099	A	19881226

FAN 1991:91599

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 02135427	A	19900524	JP 1988-288979		19881117
	US 5196147	A	19930323	US 1989-329746		19890328
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				JP 1988-326099	A 19881226

FAN 1991:237358

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02171731	A	19900703	JP 1988-326099	19881226
	US 5196147	A	19930323	US 1989-329746	19890328
				JP 1988-72080	A 19880328
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				JP 1988-288979	A 19881117
				JP 1988-326099	A 19881226

OS MARPAT 112:216448

AB A(CR1:CH)nCH:C(CN)CO2H.B [I; R1 = H, Me; B = optically active amine; A = H, alkyl, (substituted) (hetero)aryl; n = 0-2], useful as nonlinear optical materials having increased second harmonic generating ability and stability to laser light, were prepared Thus, NCCH2CO2Me and p-dimethylaminocinnamaldehyde were stirred 40 h in aqueous NaOH at 85° followed by acidification to give 2-cyano-5-(4-dimethylaminophenyl)-2,4-pentadienoic acid. The latter in THF was treated with L-1-phenylethylamine to precipitate the 1:1 salt. The salt exhibited a second harmonic .apprx.3+ that of m-nitroaniline upon exposure to 1.06μ laser light.

L18 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

TI A new method for the building up of polyene chains; preparation of some unsaturated aldehydes

AN 1936:61828 CAPLUS

DN 30:61828

OREF 30:8201b-i,8202a-c

TI A new method for the building up of polyene chains; preparation of some unsaturated aldehydes

AU Wittig, G.; Kethur, R.; Klein, A.; Wietbrock, R.

SO Berichte der Deutschen Chemischen Gesellschaft [Abteilung] B: Abhandlungen (1936), 69B, 2078-87
CODEN: BDCBAD; ISSN: 0365-9488

DT Journal

LA Unavailable

OS CASREACT 30:61828

AB The classical method of preparing, from an aldehyde RCHO, the "vinylene-homologous" aldehydes R(CH:CH)xCHO by condensing the RCHO with AcH or MeCH:CHCHO suffers from the disadvantage that the aldehydes formed in the condensation themselves further condense and thus give mixts. from which the desired product can be isolated only with great loss. It was thought this complication might be avoided by condensing the aldehyde with AcCO2H and decarboxylating the product, but all attempts to prepare PhCH:CHCH:CHCHO (I), e. g., from PhCH:CHCH:CHCOCO2H (heating with Cu powder or in quinoline or PhNMe2) were unsuccessful, probably because of the instability of the I. However, the following series of reactions

proved feasible: RCHO + NCCH2CO2H → RCH:C(CN)CO2H → RCH:CHCN → RCH:CHCH:NH → RCH:CHCHO. The reduction of the nitrile to the aldimide required, of course, a method in which the reducing action is confined to the nitrile group; SnCl2 in ether containing HCl fulfills this condition, hydrolysis of the intermediate (RCH:NH.HCl)2SnCl4 giving the corresponding aldehyde (Stephen, C. A. 19, 3261). In this way Stephen rapidly and quantitatively converted PhCN into BzH. The 1st vinylene homolog, PhCH:CHCN, which is readily obtained from BzH and NCCH2CO2H, is less easily reduced to PhCH:CHCHO by the Stephen method, although the yield is still 40%. The next homolog, Ph(CH:CH)2CN, gives only about 10% aldehyde (I) and Ph(CH:CH)3CN yields only traces of Ph(CH:CH)3CHO. This is believed to be due to decrease in solubility of the SnCl2-HCl addition products with increasing length of the polyene chain. To increase their solubility, and hence their reactivity, attempts were made to modify Stephen's conditions. When, instead of allowing the mixture to stand at 15-20°, the ether suspension of the PhCH:CHCH:CHCN addition product was heated several hrs. at 55%, the yield of I was 5-10%, i. e., it was decreased, if anything. The best results were obtained with SnCl2 in dioxane containing HCl at 55°; the yield of I was thereby increased to 15%. Moreover, since, after removal of the I with NaHSO3 up to 50% of the original nitrile can be recovered and again subjected to reduction, the yield of I can be put roughly at 25%. The I so obtained is pure after 1 distillation and solidifies to a crystalline mass m. 36-8°, whereas the product obtained from BzH and MeCH:CHCHO (Kuhn and Winterstein, C. A. 23, 4682) remains oily. The identity of the 2 products was proven by mixed m. ps. of their phenylhydrazones, m. 173.5-4°. Ph2C:CHCHO (II), m. 44-5°, obtained in 41% yield from Ph2C:CHMgBr and HCONMePh, was converted by the above method with NCCH2CO2H into 5,5-diphenylpentadien-1-al (III). PhCH:CHCH:C(CN)CO2H, obtained in 82% yield from PhCH:CHCHO and NCCH2CO2H refluxed in AcOH, m. 212° (decomposition); with reduced Cu at 180-5° it gives 78% PhCH:CHCH:CHCN, light yellow, b11 158-60°, stereoisomerized into the "solid" form, m. 40-1.5°, by saturating in ether with HCl gas and decomposing the resulting crystalline yellow HCl product with water. Both forms yield the same acetamide, m. 185.5-6.5°, on hydrolysis with alc. KOH, and the same acid, m. 163-4°, on further hydrolysis. 7-Phenyl-2-cyano-2,4,6-heptatrienoic acid (3.4 g. from 4 g. I and 2.4 g. NCCH2CO2H in sealed tubes under N at 100°), dark red, m. 227-8° (decomposition); 3 g. heated with reduced Cu at 190° gives 1.8 g. cinnamylidenecrotononitrile (mixture of stereoisomers), light yellow viscous oil, b12 195-7°, m. 50-5°, the m. p. slowly rising to 103-7° on recrystn. from a little MeOH. When the nitrile is treated with HCl gas in ether and the resulting orange crystals are decomposed with water, it is converted into the higher-melting (111-12°) form. Ph2C:CHBr, m. 46-7.5° (49-50° when pure) is obtained directly in 60% yield, without isolation of any intermediate products, from Ph2CMeOH boiled a few min. in AcOH with a few drops of HBr, cooled rapidly, treated with cooling with Br-AcOH until the Br color persists on shaking, and brought to a boil to decompose the Ph2CBrCH2Br. Semicarbazone of II, m. 217-19°; anilide, light yellow, m. 98-8.8°; azine, bright yellow, m. 199-9.5°. γ-Phenylcinnamylidenecyanoacetic acid (88% from II and NCCH2CO2H refluxed in AcOH), yellow, m. 217-18° (evolution of CO2), decarboxylated by reduced Cu at 195° to the acetonitrile (78% yield), b12 226-8°, m. 68-9°; when 1.2 g. of this is heated 4-5 hrs. at 50° with SnCl@ dissolved in dioxane in a current of HCl, the yellow needles which sep. are treated with water at 50-60°, the solution is extracted with 40% NaHSO3 and the crystalline bisulfite compound is decomposed with H2SO4 there is obtained 0.1 g. III, m. 69.5-71°; it forms an orange azine, m. 183-4°.

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	35.33	182.48

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CA SUBSCRIBER PRICE	-3.90	-12.48

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